

## Computer Aided Design Technology Courses and Booklist

1ST TRIMESTER		CERTIFICATE: ASSISTANT DRAFTER		Prerequisite: NONE	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY		
CAD0001 Worker Characteristics	None	\$0.00			
CAD1010 Orientation & Safety	None	\$0.00			
CAD1020 Technology Foundations	None	\$0.00			
CAD1030 Drawing Techniques	Drafting Kit	\$71.00			
	Headphones or Earbuds	\$5.00			
	Bundle: Engineering Drawing and Design, Loose-leaf Version, 6th + MindTap Drafting, 4 terms (24 months) Printed Access Card; ISBN: 9780357010044; Cengage	\$125.00			
	Lead Holder	\$11.00			
CAD1040 CAD	Flash Drive	\$6.00			
	AutoCAD 2023 Tutorial First Level 2D Fundamentals; ISBN: 978-1-63057-501-4	\$56.00			
	Parametric Modeling with Autodesk Inventor 2023; ISBN: 978-1-63057-506-9	\$56.00			
	Optional Exam - Autodesk Certified User (ACU): AutoDesk AutoCAD	\$72.82			
	Optional Exam - Autodesk Certified User (ACU): AutoDesk Inventor	\$72.82			
<b>Trimester 1: 432 Contact Hours</b>	<b>Trimester 1 Books and Supplies Total</b>		<b>\$475.64</b>		

2nd Trimester		Certificate: Detail Drafter		Prerequisite: Assistant Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY		
CAD0002 Worker Characteristics	None	\$0.00			
CAD2010 Technical Drawing	None	\$0.00			
CAD2020 Additive Manufacturing	None	\$0.00			
	Optional Exam - Autodesk Certified User (ACU): Fusion 360	\$72.82			
<b>Trimester 2: 432 Hours Total Contact Hours</b>	<b>(864</b>	<b>Trimester 2 Tests, Books and Supplies Total</b>		<b>\$72.82</b>	

3rd & 4th Trimester Elective		Specialization: Mechanical Drafter		Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY		
CAD0003 Worker Characteristics	None	\$0.00			
CAD3050 Mechanical Design I	Beginner's Guide to SOLIDWORKS 2022 - Level I; SDC; ISBN: 978-1-63057-465-9	\$56.00			
	Beginner's Guide to SOLIDWORKS 2022 - Level I; SDC; ISBN: 978-1-63057-474-1	\$56.00			
	Optional Exam Certified SOLIDWORKS Associate - Academic	\$99.00			
<b>Trimester 3: 432 Hours Total Contact Hours</b>	<b>(1296</b>	<b>Trimester 3 Tests, Books and Supplies Total</b>		<b>\$211.00</b>	

COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY		
CAD0004 Worker Characteristics	None	\$0.00			
CAD4080 Mechanical Design II	None	\$0.00			
CAD4050 Professional Development	None	\$0.00			
<b>Trimester 4: 432 Hours Total Contact Hours</b>	<b>(1728</b>	<b>Trimester 4 Tests, Books and Supplies Total</b>		<b>\$0.00</b>	

3rd & 4th Trimester Elective		Specialization: Architectural Drafter		Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY		
CAD0003 Worker Characteristics	None	\$0.00			
CAD3030 Residential Architecture I	Architecture Residential Drafting & Design 13th Edition; GW; 978-1-64925-973-8	\$155.00			
	Residential Design Using Autodesk Revit 2023; SDC; ISBN: 978-1-63057-507-6	\$56.00			
	Building Construction: Principles, Materials, & Systems; Pearson; 9780134454177	\$45.00			
	Optional Exam - Autodesk Certified User (ACU): AutoDesk Revit	\$72.82			
<b>Trimester 3: 432 Hours Total Contact Hours</b>	<b>(1296</b>	<b>Trimester 3 Tests, Books and Supplies Total</b>		<b>\$328.82</b>	

COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY		
CAD0004 Worker Characteristics	None	\$0.00			
CAD4060 Residential Architecture II	2 Story Townhouse Kit #105 - MID552; AC Supply	\$150.00			
CAD4050 Professional Development	None	\$0.00			
<b>Trimester 4: 432 Hours Total Contact Hours</b>	<b>(1728</b>	<b>Trimester 4 Tests, Books and Supplies Total</b>		<b>\$150.00</b>	

3rd & 4th Trimester Elective		Specialization: Drafting & CAD Technician	Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0003 Worker Characteristics	None	\$0.00		
CAD3010 Drafting Applications	Use Technical Drawing Previous Purchase	\$0.00		
CAD3020 Working Drawings	Use Technical Drawing Previous Purchase	\$0.00		
<b>Trimester 3: 432 Hours</b> <b>Total Contact Hours)</b>		<b>Trimester 3 Tests, Books and Supplies Total</b>	<b>\$0.00</b>	

COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0004 Worker Characteristics	None	\$0.00		
CAD4010 Solid Modeling	Beginner's Guide to SOLIDWORKS 2022 - Level I; SDC; ISBN: 978-1-63057-465-9	\$56.00		
	Beginner's Guide to SOLIDWORKS 2022 - Level I; SDC; ISBN: 978-1-63057-474-1	\$56.00		
CAD4020 3D Illustration	None	\$0.00		
CAD 4030 Animation	None	\$0.00		
CAD 4040 Rendering	None	\$0.00		
CAD4050 Professional Development	None	\$0.00		
<b>Trimester 4: 432 Hours</b> <b>Total Contact Hours)</b>		<b>Trimester 4 Tests, Books and Supplies Total</b>	<b>\$112.00</b>	

3rd & 4th Trimester Elective		Specialization: Civil Drafter	Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0003 Worker Characteristics	None	\$0.00		
CAD3040 Civil Design I	Civil Drafting Technology 8th Ed.; Pearson; ISBN: 978-0134436043	\$90.00		
	Structural, Civil and Pipe Drafting, 2nd Edition; Cengage; ISBN: 9781133949398	\$250.00		
	Autodesk Civil 3D 2023 Fundamentals; SDC; ISBN: 978-1-63057-494-9	\$56.00		
<b>Trimester 3: 432 Hours</b> <b>Total Contact Hours)</b>		<b>Trimester 3 Tests, Books and Supplies Total</b>	<b>\$396.00</b>	

COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0004 Worker Characteristics	None	\$0.00		
CAD4070 Civil Design II	None	\$0.00		
CAD4050 Professional Development	None	\$0.00		
<b>Trimester 4: 432 Hours</b> <b>Total Contact Hours)</b>		<b>Trimester 4 Tests, Books and Supplies Total</b>	<b>\$0.00</b>	

3rd & 4th Trimester Elective		Specialization: Structural Drafter	Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0003 Worker Characteristics	None	\$0.00		
CAD3060 Structural Design I	Autodesk Revit 2023 Structure Fundamentals SDC ISBN: 978-1-63057-518-2	\$56.00		
	Structural Steel Drafting and Design 2nd Ed.; Cengage; ISBN: 978-1401890322	\$134.25		
	Commercial Drafting & Detailing 4th Ed.; Cengage; ISBN: 9781285097398	\$191.50		
<b>Trimester 3: 432 Hours</b> <b>Total Contact Hours)</b>		<b>Trimester 3 Tests, Books and Supplies Total</b>	<b>\$381.75</b>	

COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0004 Worker Characteristics	None	\$0.00		
CAD4090 Structural Design II	None	\$0.00		
CAD4050 Professional Development	None	\$0.00		
<b>Trimester 4: 432 Hours</b> <b>Total Contact Hours)</b>		<b>Trimester 4 Tests, Books and Supplies Total</b>	<b>\$0.00</b>	

### Course Books and Supplies Totals

Assistant Drafter Certificate Books and Supplies Total	<b>\$475.64</b>
Detail Drafter Certificate Books and Supplies Total	<b>\$548.46</b>
Mechanical Drafter Diploma Books and Supplies Total	<b>\$759.46</b>
Architectural Drafter Diploma Books and Supplies Total	<b>\$1027.28</b>
Structural Drafter Diploma Books and Supplies Total	<b>\$930.21</b>
Civil Drafter Diploma Books and Supplies Total	<b>\$944.46</b>
Drafting & CAD Technician Diploma Books and Supplies Total	<b>\$660.46</b>